FIG. 1

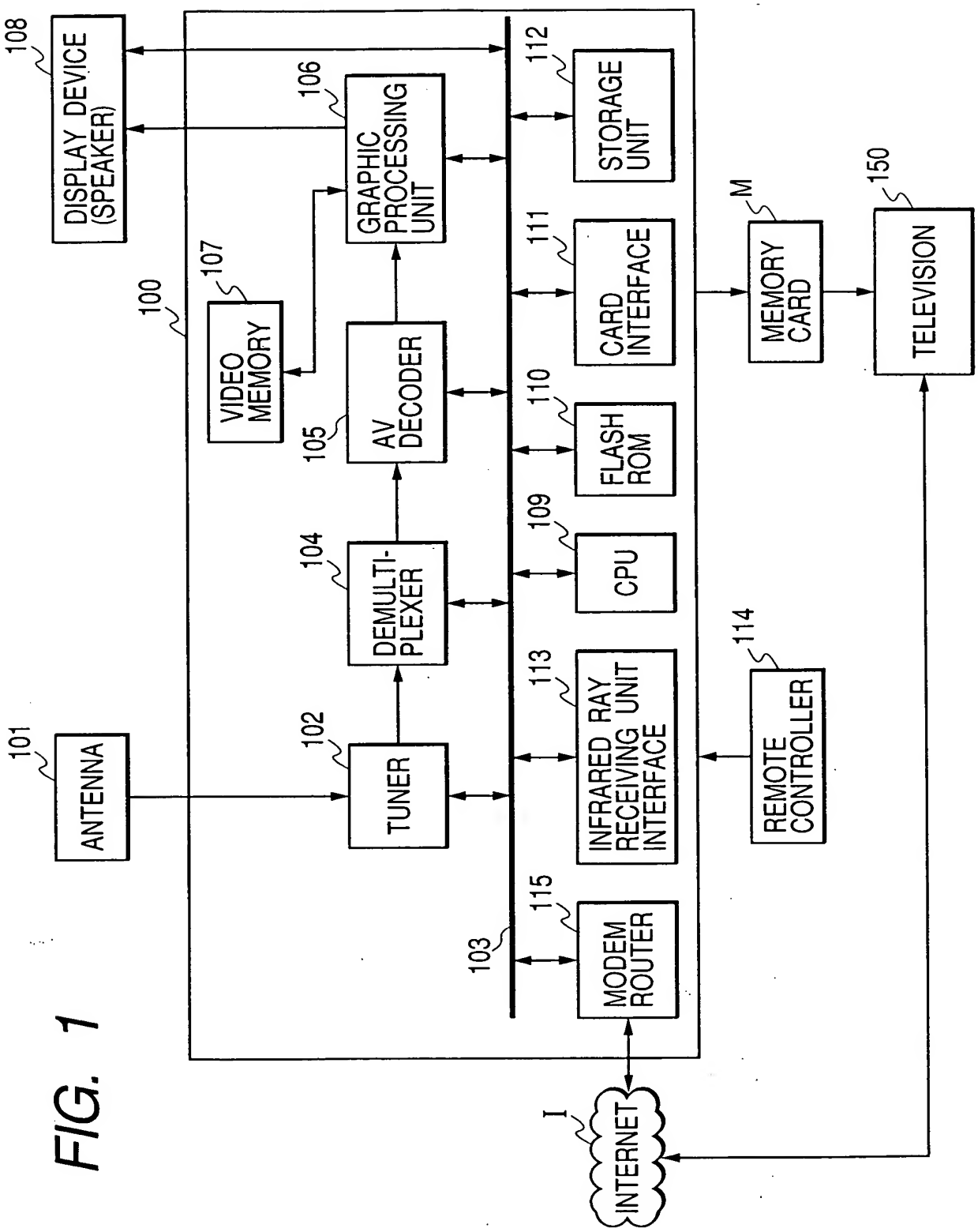

100
101
ANTENNA
102
TUNER
103
104
DEMULTI-PLEXER
105
AV DECODER
106
GRAPHIC PROCESSING UNIT
107
VIDEO MEMORY
108
DISPLAY DEVICE (SPEAKER)
109
CPU
110
FLASH ROM
111
CARD INTERFACE
112
STORAGE UNIT
113
INFRARED RAY RECEIVING UNIT INTERFACE
114
REMOTE CONTROLLER
115
MODEM ROUTER
I
INTERNET
M
MEMORY CARD
150
TELEVISION

FIG. 2

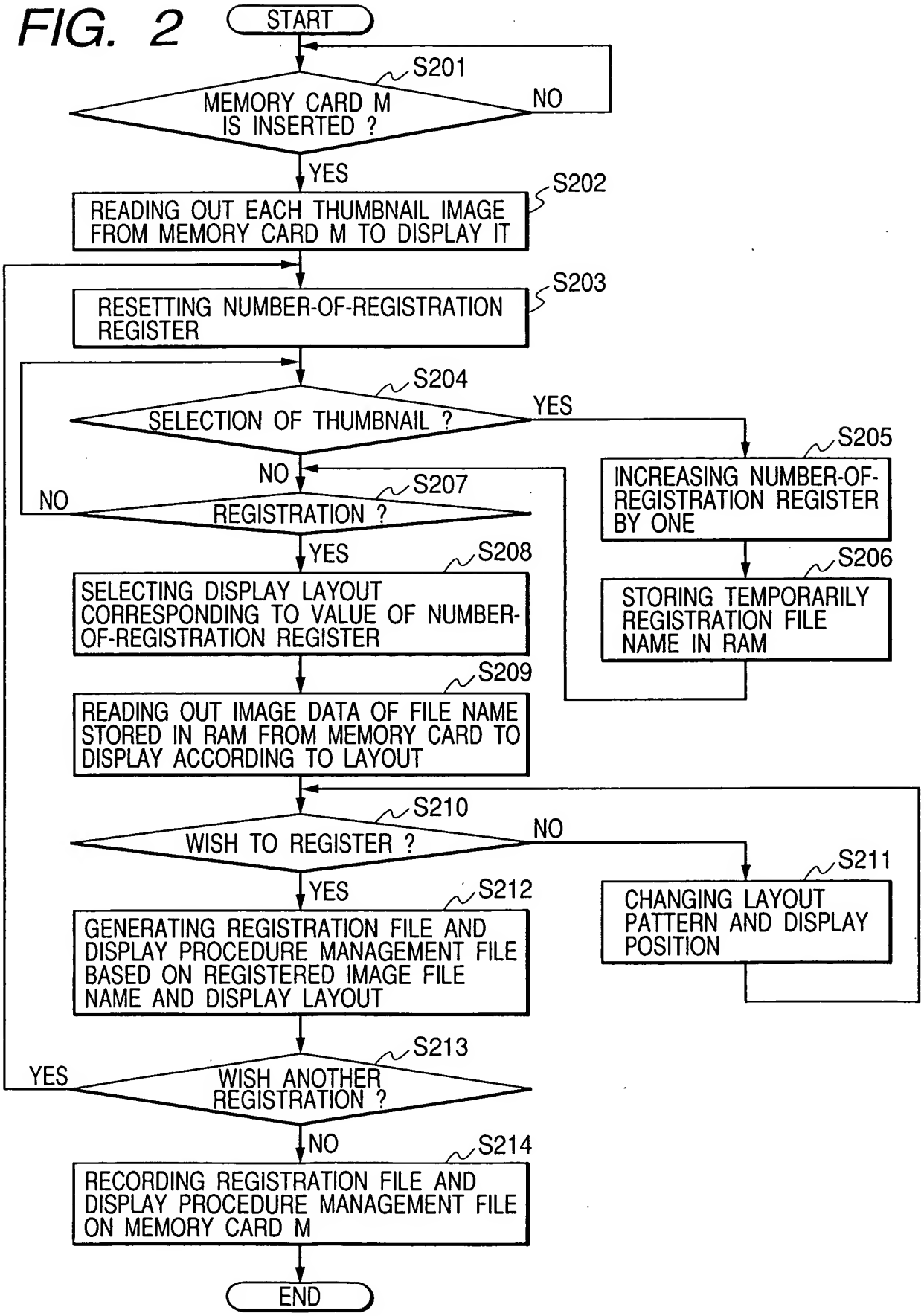
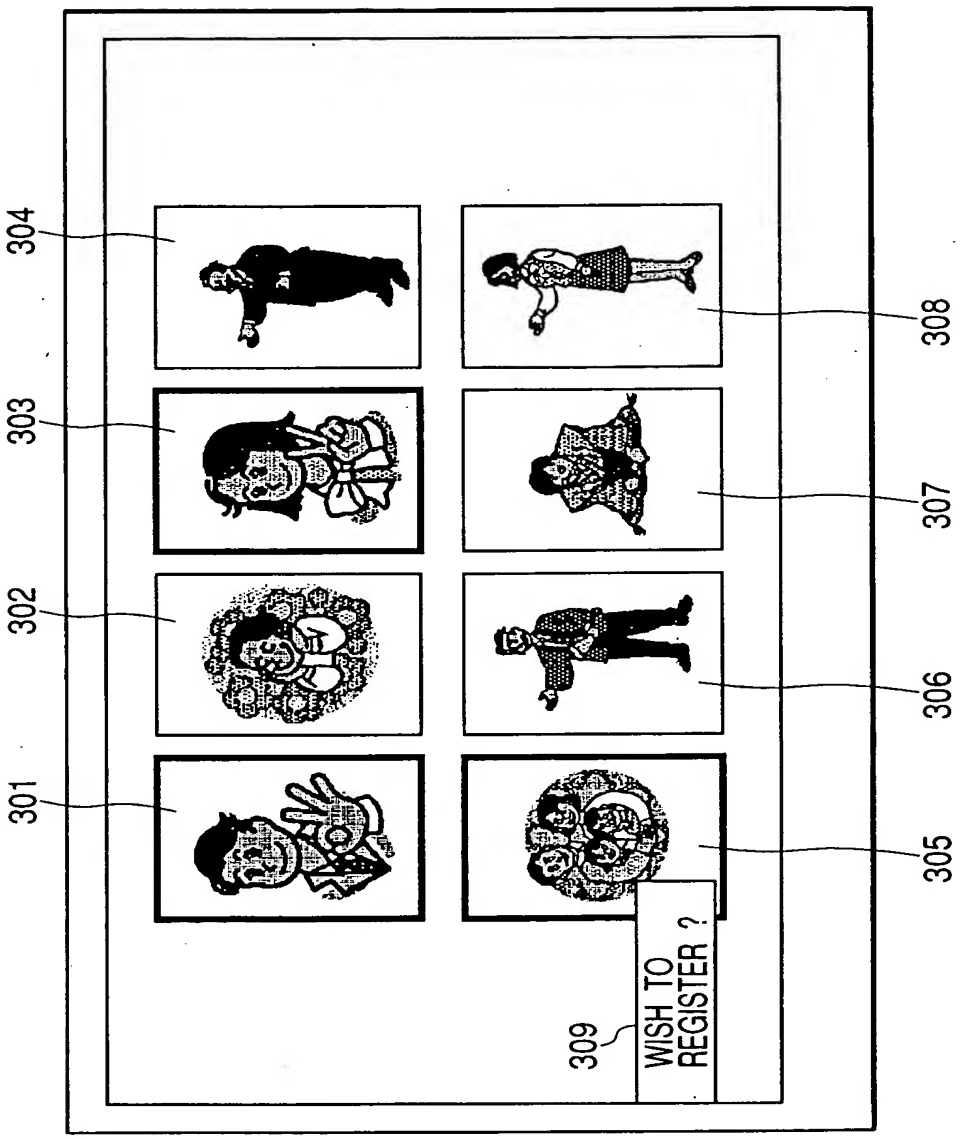
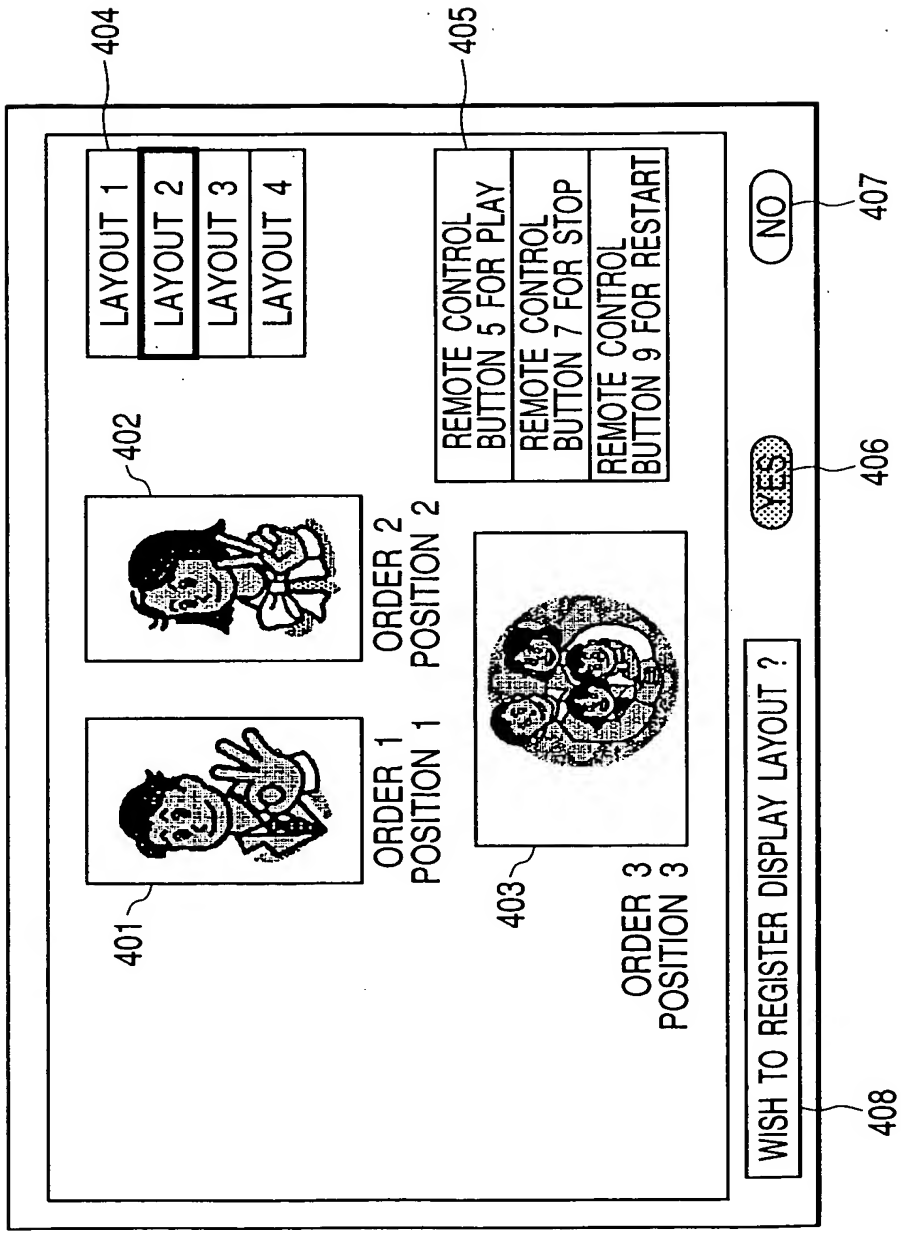

START
S201
MEMORY CARD M IS INSERTED ?
NO
YES
S202
READING OUT EACH THUMBNAIL IMAGE FROM MEMORY CARD M TO DISPLAY IT
S203
RESETTING NUMBER-OF-REGISTRATION REGISTER
S204
SELECTION OF THUMBNAIL ?
YES
S205
INCREASING NUMBER-OF-REGISTRATION REGISTER BY ONE
S206
STORING TEMPORARILY REGISTRATION FILE NAME IN RAM
NO
S207
NO
REGISTRATION ?
YES
S208
SELECTING DISPLAY LAYOUT CORRESPONDING TO VALUE OF NUMBER-OF-REGISTRATION REGISTER
S209
READING OUT IMAGE DATA OF FILE NAME STORED IN RAM FROM MEMORY CARD TO DISPLAY ACCORDING TO LAYOUT
S210
WISH TO REGISTER ?
NO
S211
CHANGING LAYOUT PATTERN AND DISPLAY POSITION
YES
S212
GENERATING REGISTRATION FILE AND DISPLAY PROCEDURE MANAGEMENT FILE BASED ON REGISTERED IMAGE FILE NAME AND DISPLAY LAYOUT
S213
YES
WISH ANOTHER REGISTRATION ?
NO
S214
RECORDING REGISTRATION FILE AND DISPLAY PROCEDURE MANAGEMENT FILE ON MEMORY CARD M
END

FIG. 3



BEST AVAILABLE COPY

FIG. 4



BEST AVAILABLE COPY

FIG. 5

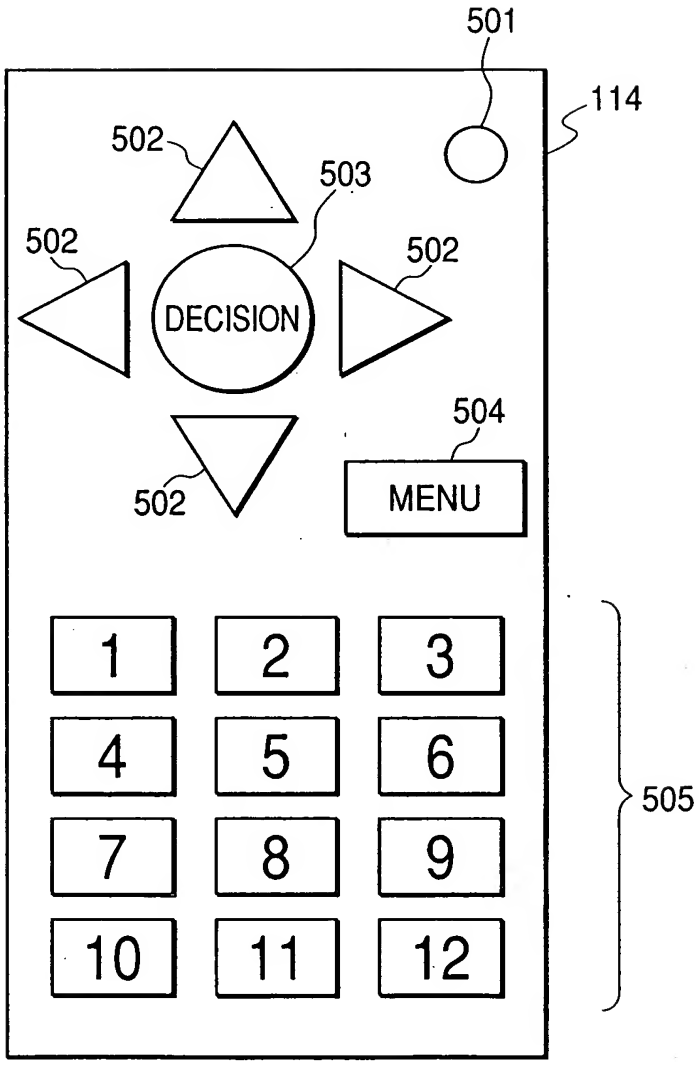

501
114
502
503
502
502
DECISION
504
502
MENU
1
2
3
4
5
6
7
8
9
10
11
12
505

FIG. 6

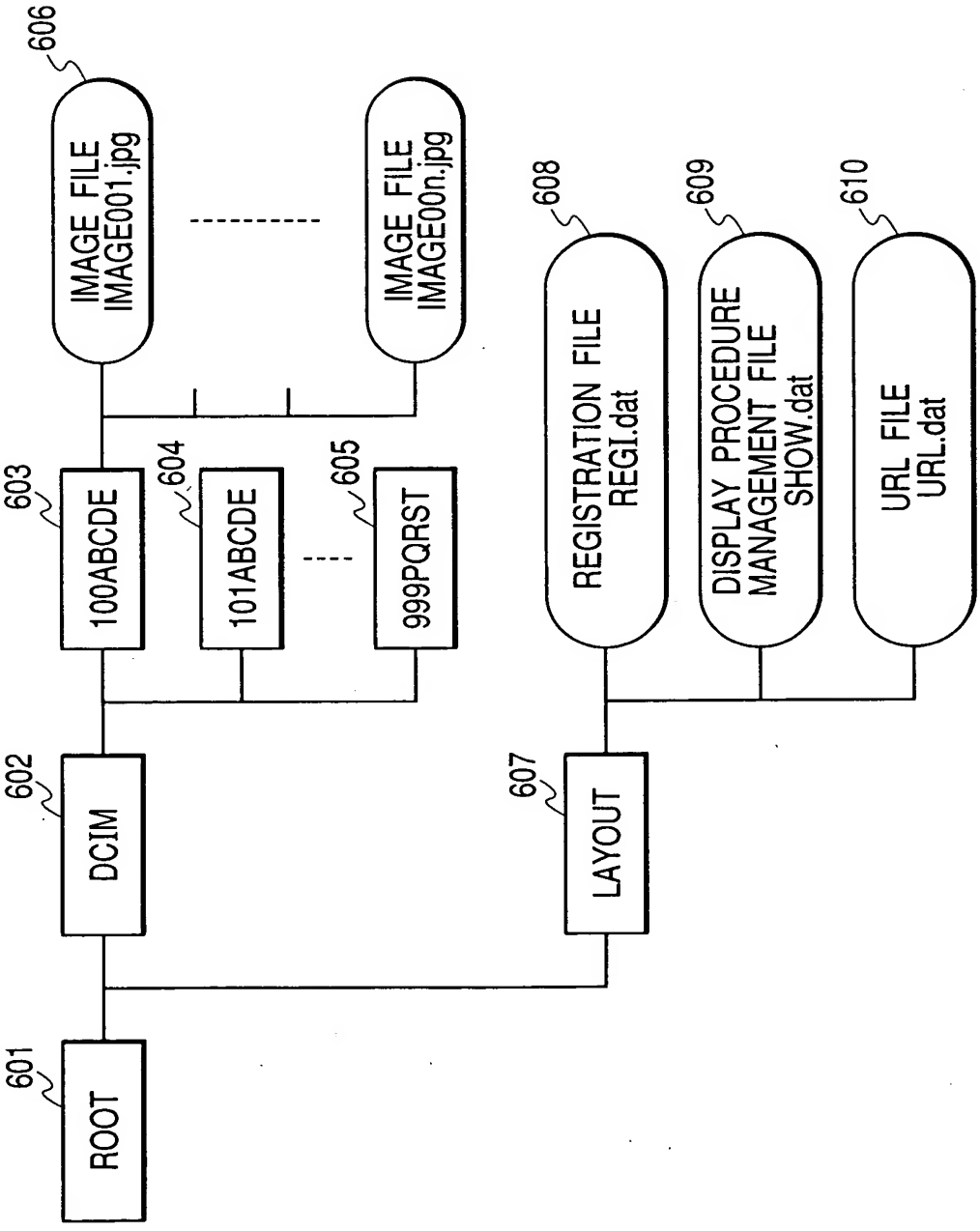

ROOT
601
DCIM
602
100ABCDE
603
101ABCDE
604
999PQRST
605
IMAGE FILE
IMAGE001.jpg
606
IMAGE FILE
IMAGE00n.jpg
LAYOUT
607
REGISTRATION FILE
REGI.dat
608
DISPLAY PROCEDURE
MANAGEMENT FILE
SHOW.dat
609
URL FILE
URL.dat
610

FIG. 7

REGISTRATION FILE

[HDR]
REGISTRATION FILE ID
FILE LENGTH
NUMBER OF SECTIONS
NUMBER OF PARAMETERS
[BASE]
- REGISTERED FILE NAME
- REGISTERED FILE DIRECTORY
- LAYOUT No.
- SLIDE GROUP ID
- SLIDE POSITION No.
- DISPLAY ORDER No.

⋮

- OPTION SETTING

OPTION
- DISPLAY POSITION X
- DISPLAY POSITION Y
- DISPLAY SIZE SX
- DISPLAY SIZE SY
- NUMBER OF DISPLAY COLORS CO

[BASE]

⋮

[BASE]

⋮

[BASE]

⋮

FIG. 8

DISPLAY PROCEDURE MANAGEMENT FILE

[HDR]
DISPLAY PROCEDURE MANAGEMENT FILE ID
FILE LENGTH
NUMBER OF SECTIONS
NUMBER OF PARAMETERS
[SLIDE]
- SLIDE GROUP ID
- NUMBER OF REGISTERED FILES
- LAYOUT No.
- REMOTE CONTROL CODE 1
- REMOTE CONTROL CODE 2
- ⋮
- REMOTE CONTROL CODE n

[SLIDE]
- SLIDE GROUP ID
- NUMBER OF REGISTERED FILES
- LAYOUT No.
- REMOTE CONTROL CODE 1
- REMOTE CONTROL CODE 2
- ⋮
- REMOTE CONTROL CODE n

⋮

[SLIDE]
- SLIDE GROUP ID
- NUMBER OF REGISTERED FILES
- LAYOUT No.
- REMOTE CONTROL CODE 1
- REMOTE CONTROL CODE 2
- ⋮
- REMOTE CONTROL CODE n

FIG. 9

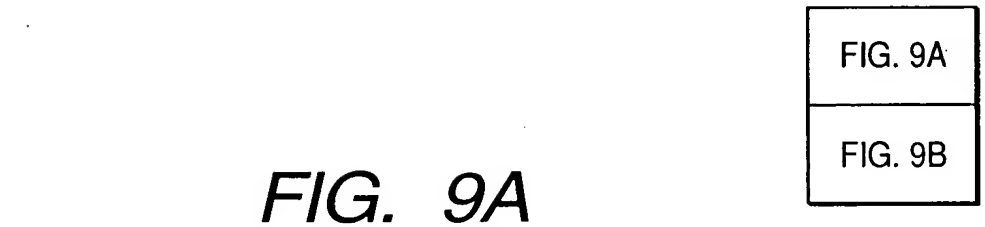


FIG. 9A
FIG. 9B

FIG. 9A

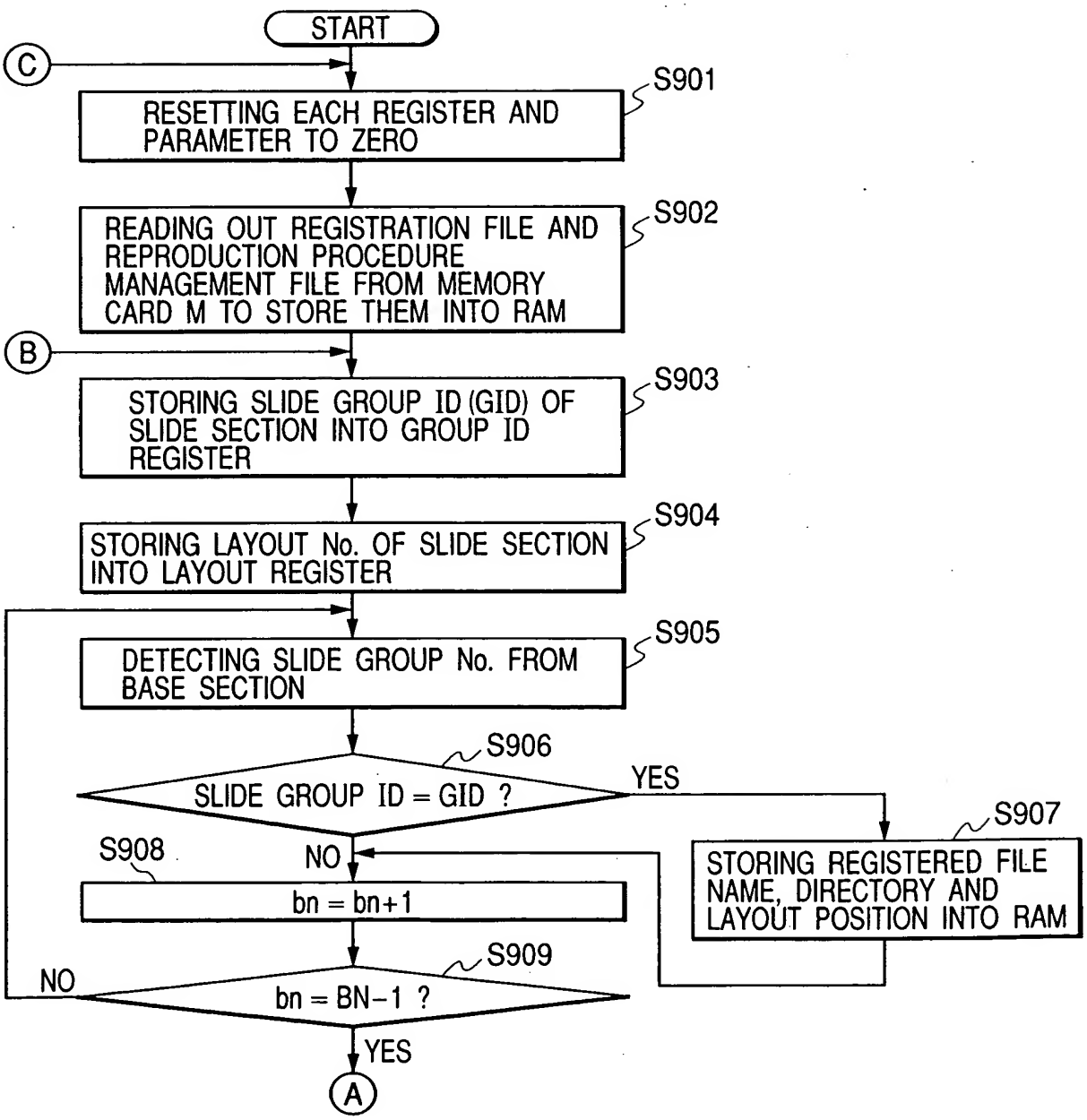

START
C
S901
RESETTING EACH REGISTER AND PARAMETER TO ZERO
S902
READING OUT REGISTRATION FILE AND REPRODUCTION PROCEDURE MANAGEMENT FILE FROM MEMORY CARD M TO STORE THEM INTO RAM
B
S903
STORING SLIDE GROUP ID (GID) OF SLIDE SECTION INTO GROUP ID REGISTER
S904
STORING LAYOUT No. OF SLIDE SECTION INTO LAYOUT REGISTER
S905
DETECTING SLIDE GROUP No. FROM BASE SECTION
S906
SLIDE GROUP ID = GID ?
YES
S907
STORING REGISTERED FILE NAME, DIRECTORY AND LAYOUT POSITION INTO RAM
NO
S908
bn = bn+1
S909
NO
bn = BN−1 ?
YES
A

FIG. 9B

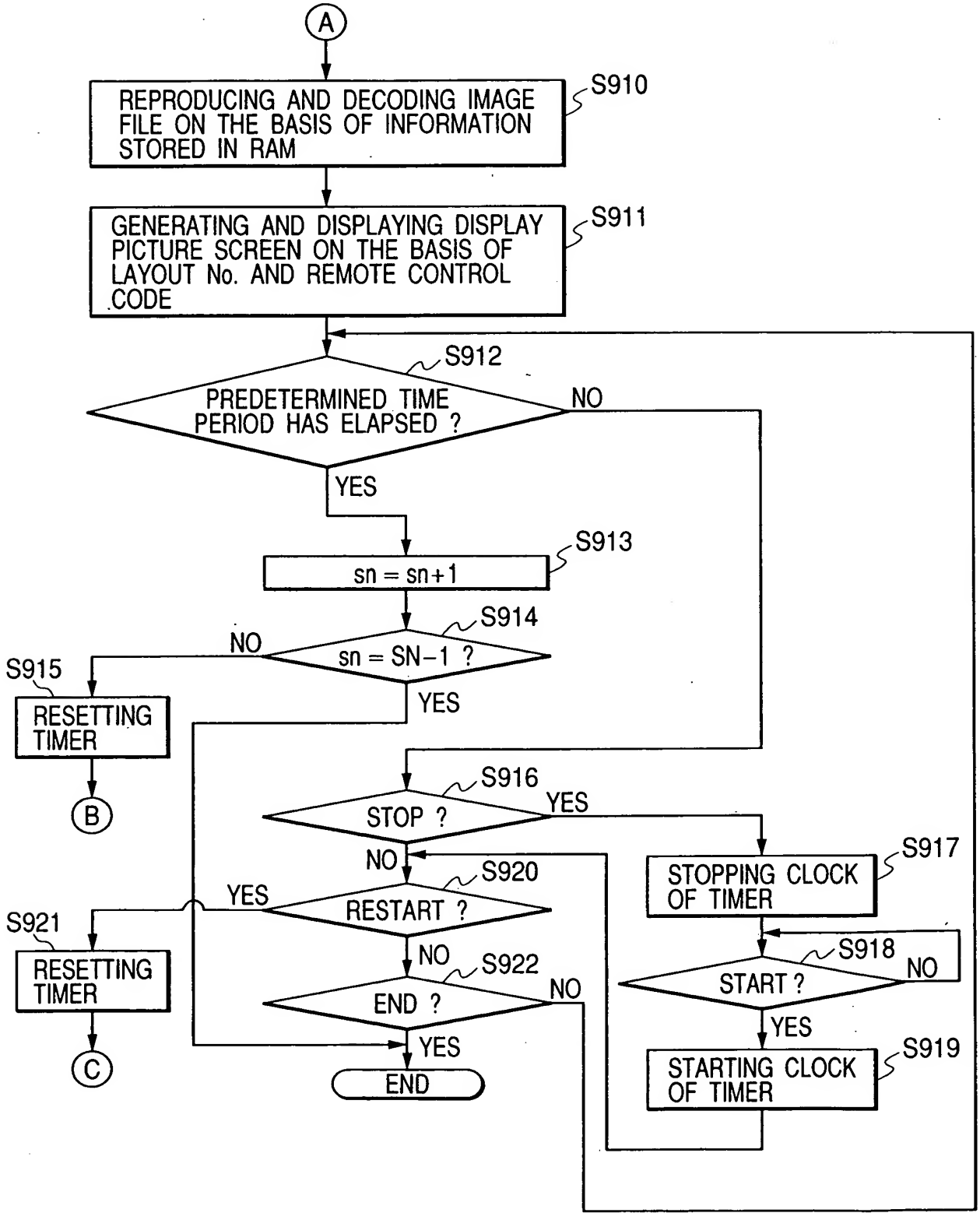

A
REPRODUCING AND DECODING IMAGE FILE ON THE BASIS OF INFORMATION STORED IN RAM
S910
GENERATING AND DISPLAYING DISPLAY PICTURE SCREEN ON THE BASIS OF LAYOUT No. AND REMOTE CONTROL CODE
S911
S912
PREDETERMINED TIME PERIOD HAS ELAPSED ?
NO
YES
S913
sn = sn+1
S914
sn = SN-1 ?
NO
YES
S915
RESETTING TIMER
B
S916
STOP ?
YES
NO
S917
STOPPING CLOCK OF TIMER
S918
START ?
NO
YES
S919
STARTING CLOCK OF TIMER
S920
RESTART ?
YES
NO
S921
RESETTING TIMER
C
S922
END ?
NO
YES
END

FIG. 10

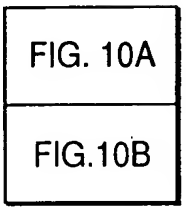


FIG. 10A

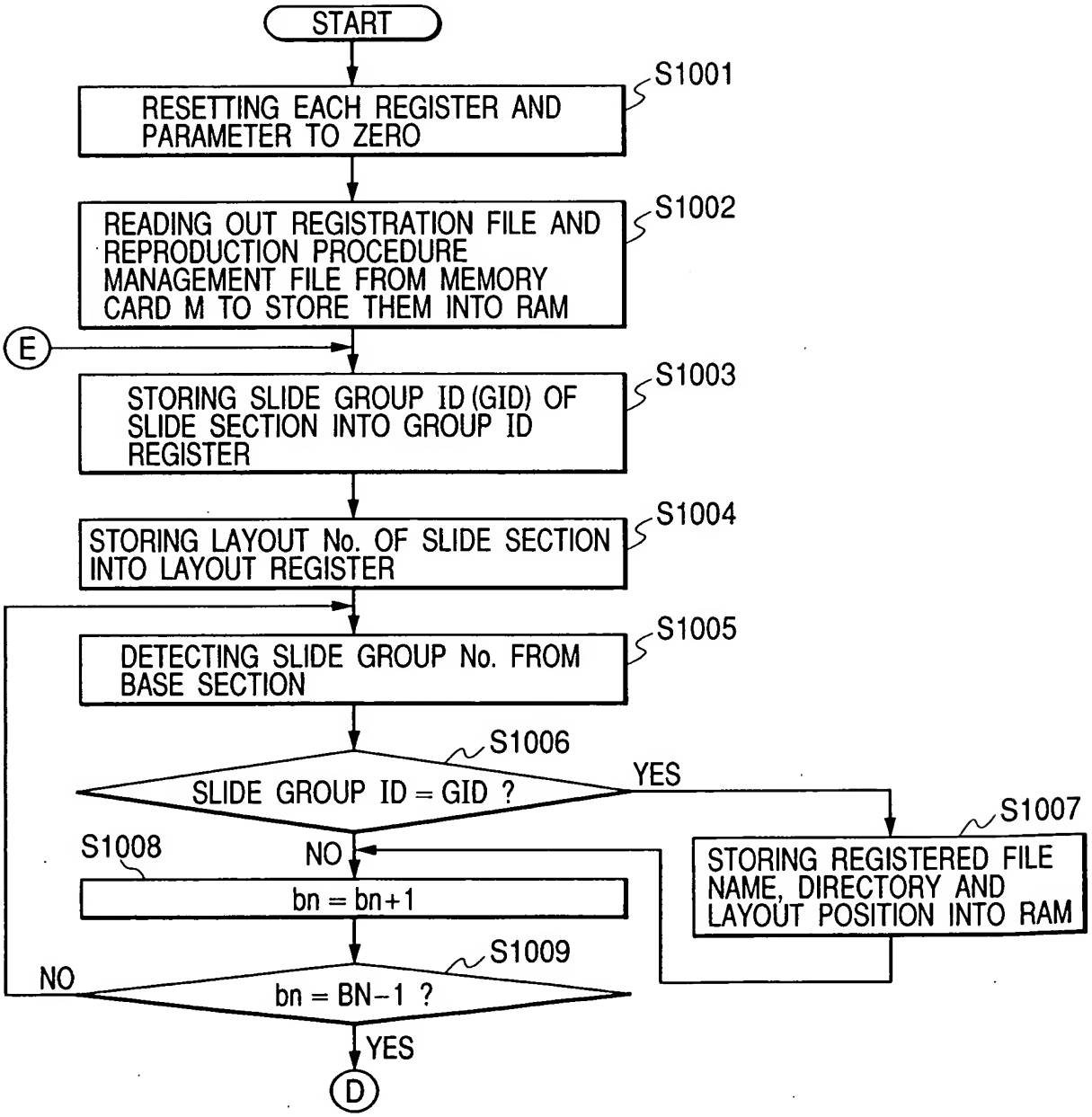


FIG. 10B

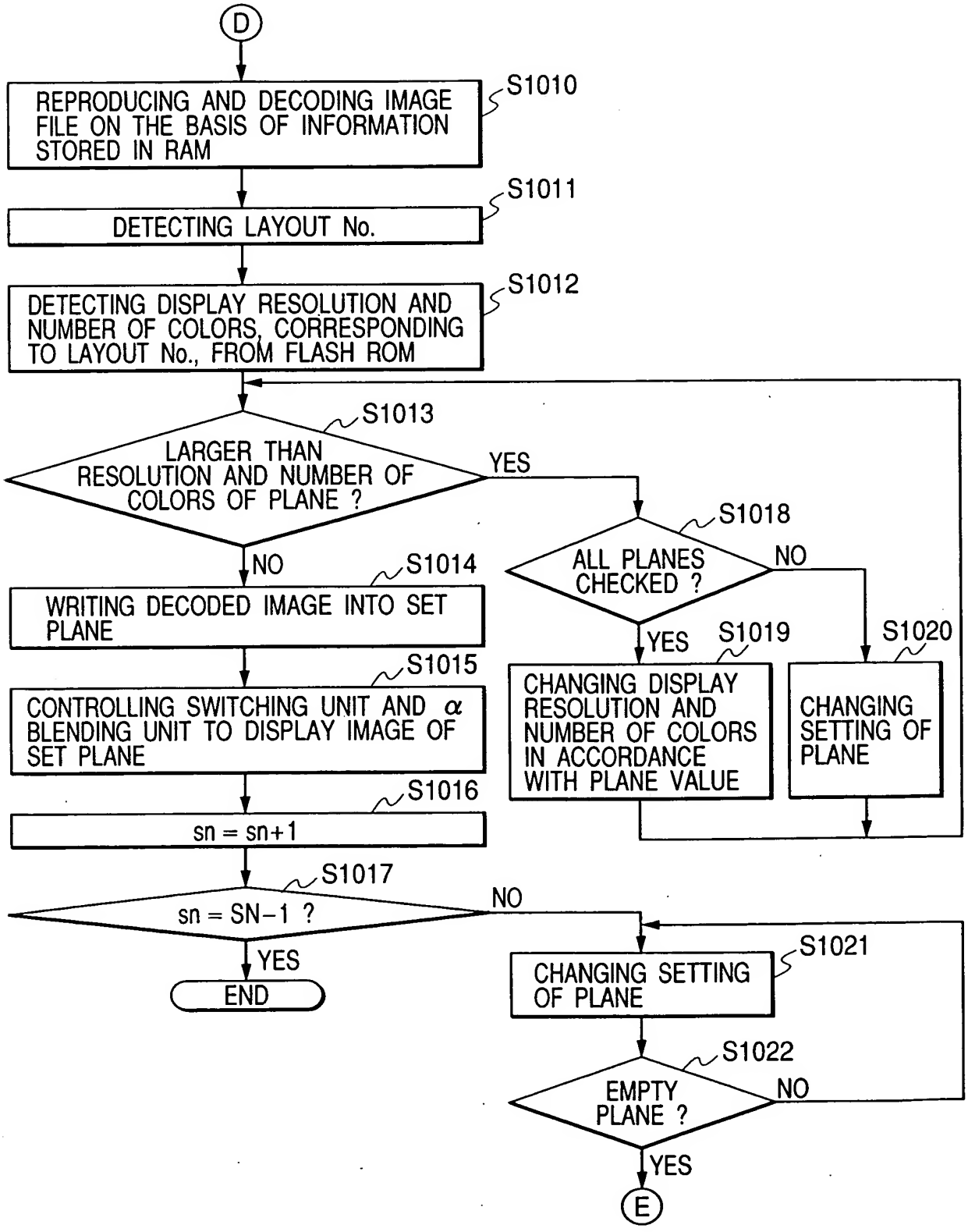
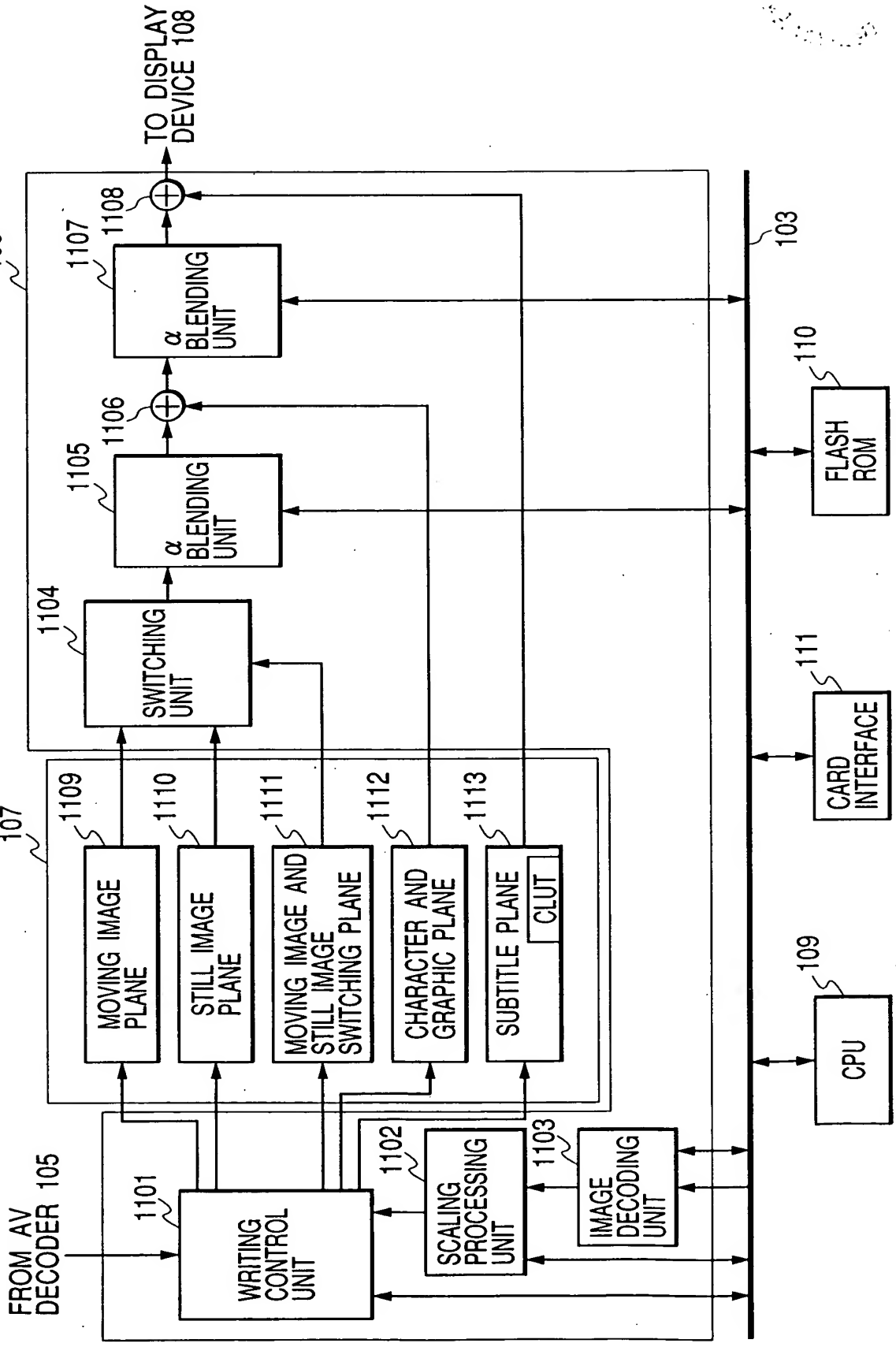

D
REPRODUCING AND DECODING IMAGE FILE ON THE BASIS OF INFORMATION STORED IN RAM
S1010
DETECTING LAYOUT No.
S1011
DETECTING DISPLAY RESOLUTION AND NUMBER OF COLORS, CORRESPONDING TO LAYOUT No., FROM FLASH ROM
S1012
S1013
LARGER THAN RESOLUTION AND NUMBER OF COLORS OF PLANE ?
YES
NO
S1014
WRITING DECODED IMAGE INTO SET PLANE
S1015
CONTROLLING SWITCHING UNIT AND α BLENDING UNIT TO DISPLAY IMAGE OF SET PLANE
S1016
sn = sn+1
S1017
sn = SN−1 ?
NO
YES
END
S1018
ALL PLANES CHECKED ?
NO
YES
S1019
CHANGING DISPLAY RESOLUTION AND NUMBER OF COLORS IN ACCORDANCE WITH PLANE VALUE
S1020
CHANGING SETTING OF PLANE
S1021
CHANGING SETTING OF PLANE
S1022
EMPTY PLANE ?
NO
YES
E

FIG. 11


TO DISPLAY DEVICE 108
106
1107
1108
α BLENDING UNIT
1105
1106
α BLENDING UNIT
1104
SWITCHING UNIT
107
1109
MOVING IMAGE PLANE
1110
STILL IMAGE PLANE
1111
MOVING IMAGE AND STILL IMAGE SWITCHING PLANE
1112
CHARACTER AND GRAPHIC PLANE
1113
SUBTITLE PLANE
CLUT
FROM AV DECODER 105
1101
WRITING CONTROL UNIT
1102
SCALING PROCESSING UNIT
1103
IMAGE DECODING UNIT
103
110
FLASH ROM
111
CARD INTERFACE
109
CPU